

**Notice of Allowability**

Application No.

10/824,989

Applicant(s)

MIYAJIMA, YOSHIKAZU

Examiner

Alan A. Mathews

Art Unit

2851

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to communication filed 12-6-05.
2. ☒ The allowed claim(s) is/are 2-16.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

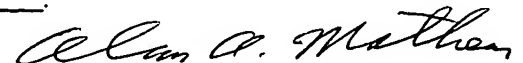
\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_



Alan A. Mathews  
Primary Examiner

### **REASONS FOR ALLOWANCE**

1. The following is an examiner's statement of reasons for allowance:

The prior art does not disclose or suggest a first measurement unit for measuring a relative position between one end and another end of said first driver; and a second measurement unit for measuring a relative position between one end and another end of said second driver in combination with all the other elements recited in independent claim 7.

The prior art does not disclose or suggest a wave front aberration measurement unit for measuring wave front aberration in said projection optical system, wherein the reflective element is driven based on a measurement result by said wave front aberration measurement unit in combination with all the other elements recited in independent claim 11.

The prior art does not disclose or suggest a wave front aberration measurement unit for measuring wave front aberration in said projection optical system; and a corrective drive amount calculator for calculating a corrective drive amount for the reflective element based on a measurement value by the wave front aberration measurement unit in combination with all the other elements recited in independent claim 12.

Art Unit: 2851

The prior art does not disclose or suggest a wave front aberration measurement unit for measuring wave front aberration in said projection optical system, wherein the reflective element is driven based on a measurement result by said wave front aberration measurement unit, wherein said projection optical system includes plural reflective elements, and the corrective drive amount is selectively provided to the plural reflective elements in combination with all the other elements recited in independent claim 13.

The prior art does not disclose or suggest a wave front aberration measurement unit for measuring wave front aberration in said projection optical system, wherein the reflective element is driven based on a measurement result by said wave front aberration measurement unit, further comprising a stage for mounting and driving the plate, wherein said wave front aberration measurement unit is provided on the stage in combination with all the other elements recited in independent claim 14.

The prior art does not disclose or suggest a wave front aberration measurement unit for measuring wave front aberration in said projection optical system, wherein the reflective element is driven based on a measurement result by said wave front aberration measurement unit, further comprising a stage for mounting and driving the original form, wherein said wave front aberration measurement unit is provided on the stage in combination with all the other elements recited in independent claim 15.

Art Unit: 2851

The prior art does not disclose or suggest a first measurement unit for measuring a relative position between one end and another end of said first driver; and a second measurement unit for measuring a relative position between one end and another end of said second driver in combination with all the other steps recited in independent claim 16.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alan A. Mathews whose telephone number is (571) 272-2123. The examiner can normally be reached on Monday through Friday from 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on (571) 272-2258. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2851

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Alan A. Mathews  
Primary Examiner  
Art Unit 2851

AM